

## Conference “Frontiers in Physics of Quantum Materials”

### List of poster presentations

Soroush Arabi. At the Interface: Noble Metal Passivation and Emergent Superconductivity in Alloy Thin Films.

Sayan Banerjee. Possible Mechanisms for Extreme Superconducting Diode Effect: Interplay of coexisting orders and dissipation.

Noga Bashan. Extended strange metal regime from superconducting puddles.

Steffen Bollmann. Strong superconducting fluctuations in proximitized fractional (anomalous) Hall edge states.

Matteo Crispino. Magnetism on the verge of Mott transition in Mn-based pnictides.

Eigen Dizer. Universal theory for heavy impurities in Fermi gases.

Anna Efimova. A modern take on mass enhancement in Fermi liquids.

Muhammad Faryad. Predicting inverse of quantum channels using neural networks.

Ivan Fernandez-Corbaton. The total helicity of electromagnetic fields and matter.

Paolo Forni. Spin Susceptibility in the Pseudogap from a Fluctuating Spiral State.

Kai Grube. Anomalous Stress Dependence in Multiband Superconductors:  $\text{Sr}_2\text{RuO}_4$  vs.  $\text{AFe}_2\text{As}_2$  ( $\text{A} = \text{K, Rb, Cs}$ ).

Iksu Jang. Elastic Quantum Criticality in Nematics and Altermagnets via the Elasto-Caloric Effect.

Egor Kiselev. The role of non-locality in the Orbital Hall Effect.

Tom Lacmann. Origin and symmetry of charge density waves in superconducting  $\text{BaNi}_2(\text{As}_{1-x}\text{Px})_2$ .

Vera Mikheeva. Extrinsic anomalous Hall effect in quarter metals.

Ameya Nambisan. Vortex coupled to a granular aluminum resonator.

Grgur Palle. Consistent treatment of multiple vestigial orders within saddle-point approximations.

Francesca Paoletti. Edge zeros in topological Mott insulators and topologically enabled superconductivity.

Kirill Parshukov. Symmetry insights into the interplay between superconductivity and altermagnetism.

Adrian Reich. BKT transitions in topological SMS junctions.

Daniel Schultz. Superconductivity from loop current fluctuations in kagome systems.

Sopheak Sorn. Topological dipole of quantum skyrmions.

Veronika Stangier. Pauli Limiting in a Superconductor at a Quantum Critical Point.

Demetrio Vilardi. Spin stiffness and stability of the magnetic order at small doping.

Ekaterina Vlasiuk. Enhancing superconductivity using thermal bosons.

Frank Weber. Charge-density-wave quantum critical point in 2H-TaSe<sub>2</sub> under pressure.

Mai Ye. Commensurate diffuse scattering under strain in HgBa<sub>2</sub>CuO<sub>4.09</sub>.